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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/844,268

DATE: 01/28/2002  
 TIME: 11:28:19

Input Set : N:\Crf3\RULE60\09844268.raw  
 Output Set: N:\CRF3\01282002\I844268.raw

1 <110> APPLICANT: BOSWORTH, BRAD  
 2 VOGELI, PETER  
 3 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS TO IDENTIFY SWINE GENETICALLY  
 4 RESISTANT TO F18 E. COLI ASSOCIATED DISEASES  
 5 <130> FILE REFERENCE: 21419/90368  
 6 <140> CURRENT APPLICATION NUMBER: 09/844,268  
 7 <141> CURRENT FILING DATE: 2001-04-27  
 8 <150> PRIOR APPLICATION NUMBER: 09/443,766  
 9 <151> PRIOR FILING DATE: 1999-11-19  
 12 <160> NUMBER OF SEQ ID NOS: 13  
 13 <170> SOFTWARE: PatentIn Ver. 2.0  
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 34 <211> LENGTH: 22  
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 42 <210> SEQ ID NO: 4  
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72 <213> ORGANISM: Artificial Sequence  
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120 <222> LOCATION: (9)..(1103)
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124             1           5           10
125     cta gtc tgt gtt tta gca gca att ttc ttc ctg aac gtc tat caa gac 98
126     Leu Val Cys Val Leu Ala Ala Ile Phe Phe Asn Val Tyr Gln Asp
127             15          20          25          30
128     ctc ttt tac agt ggc tta gac ctg ctg gcc ctg tgt cca gac cat aac 146
129     Leu Phe Tyr Ser Gly Leu Asp Leu Ala Leu Cys Pro Asp His Asn
130             35          40          45
131     gtg gta tca tct ccc gtg gcc ata ttc tgc ctg gcg ggc acg ccg gta 194
132     Val Val Ser Ser Pro Val Ala Ile Phe Cys Leu Ala Gly Thr Pro Val
133             50          55          60
134     cac ccc aac gcc tcc gat tcc tgt ccc aag cat cct gcc tcc ttt tcc 242
135     His Pro Asn Ala Ser Asp Ser Cys Pro Lys His Pro Ala Ser Phe Ser
136             65          70          75
137     ggg acc tgg act att tac ccg gat ggc cgg ttt ggg aac cag atg gga 290
138     Gly Thr Trp Thr Ile Tyr Pro Asp Gly Arg Phe Gly Asn Gln Met Gly
139             80          85          90
140     cag tat gcc acg ctg ctg gcc ctg gcg cag ctc aac ggc cgc cag gcc 338
141     Gln Tyr Ala Thr Leu Leu Ala Leu Gln Leu Asn Gly Arg Gln Ala
142             95          100         105          110
143     ttc atc cag cct gcc atg cac gcc gtc ctg gcc ccc gtg ttc cgc atc 386
144     Phe Ile Gln Pro Ala Met His Ala Val Leu Ala Pro Val Phe Arg Ile
145             115         120         125
146     acg ctg cct gtc ctg gcg ccc gag gta gac agg cac gct cct tgg cgg 434
147     Thr Leu Pro Val Leu Ala Pro Glu Val Asp Arg His Ala Pro Trp Arg
148             130         135         140
149     gag ctg gag ctt cac gac tgg atg tcc gag gat tat gcc cac tta aag 482
150     Glu Leu Glu Leu His Asp Trp Met Ser Glu Asp Tyr Ala His Leu Lys
151             145         150         155
152     gag ccc tgg ctg aag ctc acc ggc ttc ccc tgc tcc tgg acc ttc ttc 530
153     Glu Pro Trp Leu Lys Leu Thr Gly Phe Pro Cys Ser Trp Thr Phe Phe
154             160         165         170
155     cac cac ctc cgg gag cag atc cgc agc gag ttc acc ctg cac gac cac      578

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156 His His Leu Arg Glu Gln Ile Arg Ser Glu Phe Thr Leu His Asp His  
 157 175 180 185 190  
 158 ctt cgg caa gag gcc cag ggg gta ctg agt cag ttc cgt cta ccc cgc 626  
 159 Leu Arg Gln Glu Ala Gln Gly Val Leu Ser Gln Phe Arg Leu Pro Arg  
 160 195 200 205  
 161 aca ggg gac cgc ccc agc acc ttc gtg ggg gtc cac gtg cgc cgc ggg 674  
 162 Thr Gly Asp Arg Pro Ser Thr Phe Val Gly Val His Val Arg Arg Gly  
 163 210 215 220  
 164 gac tat ctg cgt gtg atg ccc aag cgc tgg aag ggg gtg gtg ggt gac 722  
 165 Asp Tyr Leu Arg Val Met Pro Lys Arg Trp Lys Gly Val Val Gly Asp  
 166 225 230 235  
 167 ggc cgt tac ctc cag cag gct atg gac tgg ttc cgg gcc cga tac gaa 770  
 168 Gly Arg Tyr Leu Gln Gln Ala Met Asp Trp Phe Arg Ala Arg Tyr Glu  
 169 240 245 250  
 170 gcc ccc gtc ttt gtg gtc acc agc aac ggc atg gag tgg tgc cgg aag 818  
 171 Ala Pro Val Phe Val Val Thr Ser Asn Gly Met Glu Trp Cys Arg Lys  
 172 255 260 265 270  
 173 aac atc gac acc tcc cgg ggg gac gtg atc ttt gct ggc gat ggg cgg 866  
 174 Asn Ile Asp Thr Ser Arg Gly Asp Val Ile Phe Ala Gly Asp Gly Arg  
 175 275 280 285  
 176 gag gcc gcg ccc gcc agg gac ttt gcg ctg ctg gtg cag tgc aac cac 914  
 177 Glu Ala Ala Pro Ala Arg Asp Phe Ala Leu Leu Val Gln Cys Asn His  
 178 290 295 300  
 179 acc atc atg acc att ggc acc ttc ggc ttc tgg gcc gcc tac ctg gct 962  
 180 Thr Ile Met Thr Ile Gly Thr Phe Gly Phe Trp Ala Ala Tyr Leu Ala  
 181 305 310 315  
 182 ggt gga gat acc atc tac ttg gct aac ttc acc ctg ccc act tcc agc 1010  
 183 Gly Gly Asp Thr Ile Tyr Leu Ala Asn Phe Thr Leu Pro Thr Ser Ser  
 184 320 325 330  
 185 ttc ctg aag atc ttt aaa ccc gag gct gcc ttc ctg ccc gag tgg gtg 1058  
 186 Phe Leu Lys Ile Phe Lys Pro Glu Ala Ala Phe Leu Pro Glu Trp Val  
 187 335 340 345 350  
 188 ggc att aat gca gac ttg tct cca ctc cag atg ttg gct ggg cct 1103  
 189 Gly Ile Asn Ala Asp Leu Ser Pro Leu Gln Met Leu Ala Gly Pro  
 190 355 360 365  
 191 tgaaccagcc aggagcctt ctgaaatagc ctgggtcaac ccaggcccag cgttatgggt 1163  
 192 ctccggaagc ccgagtaact tccggagatg ctgggtgtcc tggcggc tggacactta 1223  
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 201 1 5 10 15  
 202 Cys Val Leu Ala Ala Ile Phe Phe Leu Asn Val Tyr Gln Asp Leu Phe  
 203 20 25 30  
 204 Tyr Ser Gly Leu Asp Leu Leu Ala Leu Cys Pro Asp His Asn Val Val  
 205 35 40 45

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206	Ser Ser Pro Val Ala Ile Phe Cys Leu Ala Gly Thr Pro Val His Pro
207	50 55 60
208	Asn Ala Ser Asp Ser Cys Pro Lys His Pro Ala Ser Phe Ser Gly Thr
209	65 70 75 80
210	Trp Thr Ile Tyr Pro Asp Gly Arg Phe Gly Asn Gln Met Gly Gln Tyr
211	85 90 95
212	Ala Thr Leu Leu Ala Leu Ala Gln Leu Asn Gly Arg Gln Ala Phe Ile
213	100 105 110
214	Gln Pro Ala Met His Ala Val Leu Ala Pro Val Phe Arg Ile Thr Leu
215	115 120 125
216	Pro Val Leu Ala Pro Glu Val Asp Arg His Ala Pro Trp Arg Glu Leu
217	130 135 140
218	Glu Leu His Asp Trp Met Ser Glu Asp Tyr Ala His Leu Lys Glu Pro
219	145 150 155 160
220	Trp Leu Lys Leu Thr Gly Phe Pro Cys Ser Trp Thr Phe Phe His His
221	165 170 175
222	Leu Arg Glu Gln Ile Arg Ser Glu Phe Thr Leu His Asp His Leu Arg
223	180 185 190
224	Gln Glu Ala Gln Gly Val Leu Ser Gln Phe Arg Leu Pro Arg Thr Gly
225	195 200 205
226	Asp Arg Pro Ser Thr Phe Val Gly Val His Val Arg Arg Gly Asp Tyr
227	210 215 220
228	Leu Arg Val Met Pro Lys Arg Trp Lys Gly Val Val Gly Asp Gly Arg
229	225 230 235 240
230	Tyr Leu Gln Gln Ala Met Asp Trp Phe Arg Ala Arg Tyr Glu Ala Pro
231	245 250 255
232	Val Phe Val Val Thr Ser Asn Gly Met Glu Trp Cys Arg Lys Asn Ile
233	260 265 270
234	Asp Thr Ser Arg Gly Asp Val Ile Phe Ala Gly Asp Gly Arg Glu Ala
235	275 280 285
236	Ala Pro Ala Arg Asp Phe Ala Leu Leu Val Gln Cys Asn His Thr Ile
237	290 295 300
238	Met Thr Ile Gly Thr Phe Gly Phe Trp Ala Ala Tyr Leu Ala Gly Gly
239	305 310 315 320
240	Asp Thr Ile Tyr Leu Ala Asn Phe Thr Leu Pro Thr Ser Ser Phe Leu
241	325 330 335
242	Lys Ile Phe Lys Pro Glu Ala Ala Phe Leu Pro Glu Trp Val Gly Ile
243	340 345 350
244	Asn Ala Asp Leu Ser Pro Leu Gln Met Leu Ala Gly Pro
245	355 360 365

VERIFICATION SUMMARY  
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